

ABSTRACT

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2 A cooling system for audio equipment uses a temperature sensor and Peltier effect
3 module in a feedback control loop. The cooling system reads the temperature sensor to
4 obtain the temperature of an audio component of the equipment, and adjusts the drive for
5 the Peltier effect module that cools the audio component, to prevent overheating of the
6 component. The cooling system may include an autonomous power supply that generates
7 electric power from the audio signal driving a loudspeaker of the audio system. In
8 another embodiment, the cooling system cools an audio component installed in a vehicle,
9 even when the vehicle is unattended. To prevent discharge of the vehicle's battery, the
10 cooling system employs a battery supervisor for turning the cooling system off when the
11 battery has discharged down to a predetermined state.